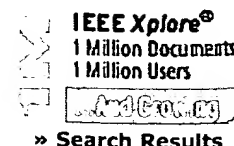




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Antennas and Propagation Magazine, IEEE, Volume: 40, Issue: 3, June 1998

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#### 2 A sparse approximate inverse to the IML matrices allows solution in 5 iterations

*Canning, F.X.;*

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Antennas and Propagation Magazine, IEEE ,Volume: 45 , Issue: 1 , Feb. 2003

Pages:19 - 26

[\[Abstract\]](#)   [\[PDF Full-Text \(612KB\)\]](#)   IEEE JNL**2 Fast direct solution of standard moment-method matrices***Canning, F.X.; Rogovin, K.;*

Antennas and Propagation Magazine, IEEE ,Volume: 40 , Issue: 3 , June 1998

Pages:15 - 26

[\[Abstract\]](#)   [\[PDF Full-Text \(1432KB\)\]](#)   IEEE JNL**3 Diagonal preconditioners for the EFIE using a wavelet basis***Canning, F.X.; Scholl, J.F.;*

Antennas and Propagation, IEEE Transactions on ,Volume: 44 , Issue: 9 , Sept. 1996

Pages:1239 - 1246

[\[Abstract\]](#)   [\[PDF Full-Text \(744KB\)\]](#)   IEEE JNL**4 Robust use of supplementary conditions for moment method solution near internal resonances***Canning, F.X.;*

Antennas and Propagation, IEEE Transactions on ,Volume: 43 , Issue: 3 , March 1995

Pages:264 - 269

[\[Abstract\]](#)   [\[PDF Full-Text \(504KB\)\]](#)   IEEE JNL**5 Preconditioned iterative solution of IML/moment method problems***Canning, F.X.;*

Magnetics, IEEE Transactions on ,Volume: 29 , Issue: 2 , Mar 1993

Pages:1946 - 1949

[\[Abstract\]](#)   [\[PDF Full-Text \(320KB\)\]](#)   IEEE JNL**6 Comments on 'Protecting EFIE-based scattering computations from effects of interior resonances' [and reply]**

*Marks, R.B.; Canning, F.X.;*

Antennas and Propagation, IEEE Transactions on , Volume: 41 , Issue: 3 , March 1993

Pages:387 - 389

[\[Abstract\]](#) [\[PDF Full-Text \(316KB\)\]](#) IEEE JNL

---

**7 Improved impedance matrix localization method [EM problems]**

*Canning, F.X.;*

Antennas and Propagation, IEEE Transactions on , Volume: 41 , Issue: 5 , May 1993

Pages:659 - 667

[\[Abstract\]](#) [\[PDF Full-Text \(748KB\)\]](#) IEEE JNL

---

**8 Interaction matrix localization (IML) permits solution of larger scattering problems**

*Canning, F.X.;*

Magnetics, IEEE Transactions on , Volume: 27 , Issue: 5 , Sep 1991

Pages:4275 - 4278

[\[Abstract\]](#) [\[PDF Full-Text \(260KB\)\]](#) IEEE JNL

---

**9 Direct solution of the EFIE with half the computation**

*Canning, F.X.;*

Antennas and Propagation, IEEE Transactions on , Volume: 39 , Issue: 1 , Jan. 1991

Pages:118 - 119

[\[Abstract\]](#) [\[PDF Full-Text \(212KB\)\]](#) IEEE JNL

---

**10 Protecting EFIE-based scattering computations from effects of interior resonances**

*Canning, F.X.;*

Antennas and Propagation, IEEE Transactions on , Volume: 39 , Issue: 11 , Nov. 1991

Pages:1545 - 1552

[\[Abstract\]](#) [\[PDF Full-Text \(732KB\)\]](#) IEEE JNL

---

**11 The impedance matrix localization (IML) method for moment-method calculations**

*Canning, F.X.;*

Antennas and Propagation Magazine, IEEE , Volume: 32 , Issue: 5 , Oct. 1990

Pages:18 - 30

[\[Abstract\]](#) [\[PDF Full-Text \(1332KB\)\]](#) IEEE JNL

---

**12 On the application of some radiation boundary conditions**

*Canning, F.X.;*

Antennas and Propagation, IEEE Transactions on , Volume: 38 , Issue: 5 , May 1990

Pages:740 - 745

[\[Abstract\]](#) [\[PDF Full-Text \(440KB\)\]](#) IEEE JNL

---

**13 Singular value decomposition of integral equations of EM and**

**applications to the cavity resonance problem***Canning, F.X.;*

Antennas and Propagation, IEEE Transactions on , Volume: 37 , Issue: 9 , Sept. 1989

Pages:1156 - 1163

[\[Abstract\]](#) [\[PDF Full-Text \(712KB\)\]](#) [IEEE JNL](#)

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**14 Physical and mathematical structure determine convergence rate of iterative techniques***Canning, F.X.;*

Magnetics, IEEE Transactions on , Volume: 25 , Issue: 4 , July 1989

Pages:2825 - 2827

[\[Abstract\]](#) [\[PDF Full-Text \(204KB\)\]](#) [IEEE JNL](#)

---

**15 A local description of the directional characteristics of the propagation of electromagnetic fields***Canning, F.X.;*

Antennas and Propagation, IEEE Transactions on , Volume: 36 , Issue: 8 , Aug. 1988

Pages:1088 - 1095

[\[Abstract\]](#) [\[PDF Full-Text \(648KB\)\]](#) [IEEE JNL](#)

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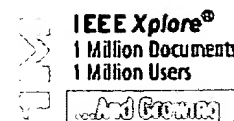
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16 **Moment method solution in order  $N^{1/2}$  operations per incidence angle**  
*Canning, F.X.;*

Antennas and Propagation Society International Symposium, 1996. AP-S. Digest  
, Volume: 3 , 21-26 July 1996  
Pages:1742 - 1745 vol.3

[\[Abstract\]](#) [\[PDF Full-Text \(160KB\)\]](#) IEEE CNF

17 **Wavelets explain the stability of Pocklington's equation**

*Canning, F.X.;*

Antennas and Propagation Society International Symposium, 2003. IEEE , Volume:  
1 , 22-27 June 2003  
Pages:350 - 353 vol.1

[\[Abstract\]](#) [\[PDF Full-Text \(228KB\)\]](#) IEEE CNF

18 **Simply Sparse, a general compression/solution method for MoM programs**

*Canning, F.X.; Rogovin, K.;*

Antennas and Propagation Society International Symposium, 2002. IEEE , Volume:  
2 , 16-21 June 2002  
Pages:234 - 237 vol.2

[\[Abstract\]](#) [\[PDF Full-Text \(231KB\)\]](#) IEEE CNF

19 **A new combined field integral equation for impedance matrix localization (IML)**

*Canning, F.X.;*

Antennas and Propagation Society International Symposium, 1993. AP-S.  
Digest , 28 June-2 July 1993  
Pages:1140 - 1143 vol.3

[\[Abstract\]](#) [\[PDF Full-Text \(144KB\)\]](#) IEEE CNF

20 **Robust use of supplementary conditions for moment method solution near internal resonances**

*Canning, F.X.;*

Antennas and Propagation Society International Symposium, 1993. AP-S.  
Digest , 28 June-2 July 1993  
Pages:330 - 333 vol.1

[\[Abstract\]](#) [\[PDF Full-Text \(128KB\)\]](#) IEEE CNF

---

**21 Impedance Matrix Localization (iml) for a Sparse Moment Method Solution In 5 Iterations**

*Canning, F.X.;*

Electromagnetic Field Computation, 1992. Digest of the Fifth Biennial IEEE Conference on , August 3-5, 1992

Pages:WP10 - WP10

[\[Abstract\]](#) [\[PDF Full-Text \(60KB\)\]](#) IEEE CNF

---

**22 A sparse approximate inverse to the IML matrices allows solution in 5 iterations**

*Canning, F.X.;*

Antennas and Propagation Society International Symposium, 1992. AP-S. 1992 Digest. Held in Conjunction with: URSI Radio Science Meeting and Nuclear EMP Meeting., IEEE , 18-25 July 1992

Pages:176 - 179 vol.1

[\[Abstract\]](#) [\[PDF Full-Text \(120KB\)\]](#) IEEE CNF

---

**23 Are higher order radiation boundary conditions more accurate?**

*Canning, F.X.;*

Antennas and Propagation Society International Symposium, 1990. AP-S. 'Merging Technologies for the 90's'. Digest. , 7-11 May 1990

Pages:1364 - 1367 vol.4

[\[Abstract\]](#) [\[PDF Full-Text \(100KB\)\]](#) IEEE CNF

---

**24 Impedance matrix localization produces a sparse moment method matrix**

*Canning, F.X.;*

Antennas and Propagation Society International Symposium, 1990. AP-S. 'Merging Technologies for the 90's'. Digest. , 7-11 May 1990

Pages:60 - 63 vol.1

[\[Abstract\]](#) [\[PDF Full-Text \(148KB\)\]](#) IEEE CNF

---

**25 A comparison of some radiation boundary conditions for differential equation calculations of scattering**

*Canning, F.X.;*

Antennas and Propagation Society International Symposium, 1988. AP-S. Digest , 6-10 June 1988

Pages:728 - 731 vol.2

[\[Abstract\]](#) [\[PDF Full-Text \(92KB\)\]](#) IEEE CNF

---

**26 Reducing moment method storage from order  $N^2$  to order  $N$  [EM scattering calculations]**

*Canning, F.X.;*

Electronics Letters ,Volume: 25 , Issue: 19 , 14 Sept. 1989

Pages:1274 - 1275

[\[Abstract\]](#) [\[PDF Full-Text \(176KB\)\]](#) IEEE JNL

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